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EXAMINER

YUAN, ALMARI ROMERO

ART UNIT PAPER NUMBER

2176

DATE MAILED: 10/21/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 09/256,845	<b>Applicant(s)</b> HUCK, THEODORE ALLEN	
	<b>Examiner</b> Almari Yuan	<b>Art Unit</b> 2176	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 12 May 2004.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 2-6, 10-12, 14, 19, 20, 22-25, 30-34, 36-38, 40-43 and 45-60 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 2-6, 10-12, 14, 19, 20, 22-25, 30-34, 36-38, 40-43 and 45-60 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |   |   |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                        | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)    | Paper No(s)/Mail Date. _____  |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____   | 6) <input type="checkbox"/> Other: _____                                    |

### **DETAILED ACTION**

1. This action is responsive to communications: Response filed on 5/12/04.
2. Claims 2-6, 10-12, 14, 19, 20, 22-25, 30-34, 36-38, 40-43, and 45-60 are pending in the case. Claims 46 and 60 are independent claims.

#### ***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. **Claims 10-12, 14, 23-25, 30-34, 36-38, 40-43, 45, and 60 are rejected under 35 U.S.C. 103(a) as being unpatentable over Krishna et al. (USPN 6,055,522 – filed on 6/1997 in view of Kiyono et al. (USPN 6,137,483 – filed 11/1996), and further in view of Foley et al. (USPN 5,706,502 – issued on 01/1998).**

**Regarding independent claim 60, Krishna et al. (Krishna) discloses:**

A template repository and template manager system that provide access to a back-end information access functionality in response to a client request for a template, including:

a template repository for storing templates (the template file 112 is stored; col.5, lines 1-12), a particular template including one or more abstract references that specify back-end information access functionality to be invoked when the client requests the particular template (the template file consists of a set of objects; the object content can be embedded in the template

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file or may simply be a reference to where the content file can be found; the content portion of the template file 112 may be a reference to objects stored on a server; col. 1, line 63 – col. 2, line 21 and col. 5, lines 3-15);

the abstract references with one or more run-time services (web page may include address pointers (references) to other servers where information can be found; the template file consists of a set of objects...actions taken on or by such objects; template file 112 may actually be a reference to objects that may be stored on a server 122 that is located remotely to the web server 102 on which the template file is stored; col. 1, lines 21-32 and line 63 – col. 2, line 21, col. 5, lines 3-15);

resolves abstract references to the associated run-time services (the template file specifies how a web page is to be displayed; the server 102 has stored a downloadable Viewer file which contains applet or plug-in portion that contains programs used by the browser; the browser ascertains that the downloaded template file requires an applet and uses the applet conjunction with the local Java interpreter to display the web page; col. 1, line 63 – col. 2, line 8, lines 62-65 and col. 5, lines 3-46);

invokes the associated run-time services that provide back-end information access functionality (actions to be taken (services) are invoked in response to user inputs or triggers (given client); col. 3, lines 6-9 and col. 5, lines 31-46).

However, Krishna does not explicitly disclose, “a template manager, responsive to the client request that identifies the particular template” and “parses the particular template”.

Kiyono et al. (Kiyono) discloses “a template manager, responsive to the client request that identifies the particular template” and “parses the particular template” (the template manager

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manages a template describing therein a logic structure, a layout structure, and a physical operation common (parsed) to a diversity of multimedia content; col. 4, lines 38-41; col.6, lines 21-25).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Kiyono with Krishna because it would have provided the capability for handling both regularity and diversification of multimedia documents.

However, Krishna and Kiyono do not explicitly disclose “a dictionary that associates the abstract references with one or more run-time services” and “accesses the dictionary and resolves abstract references to the associated run-time services”.

Foley on col. 5, lines 23-27 and lines 58-63 teaches executing all of the referenced files that are executable (i.e., the applets), in other words, referenced applets are stored in a remote system are to be automatically pulled and executed; see Figure 1 shows JWS Applets 140A contains a list (dictionary) of referenced stored applets 140A1-140A2 wherein the these referenced applets are pulled (accessed) to be executed.

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of stored referenced applets of Foley into the objects and actions of Krishna and Kiyono in order to facilitate the creation or importation of software components such as Java applets (stored locally or on an Internet node).

**Regarding dependent claim 30, Krishna discloses:**

at least some of the templates comprise at least page description language template (the template file consists of a specification for a Web page in terms of object content and actions to be taken on or between such objects; col.2, lines 62-65).

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**Regarding dependent claim 31, Krishna discloses:**

at least one page description language template comprises a Hypertext Markup Language document (Hypertext Markup Language pages; col.3, lines 9-17).

**Regarding dependent claim 32, Krishna discloses:**

It would have been obvious that a Standard Generalized Markup Language document is used widely to manage large documents that are subject to frequent revisions and need to be printed in different formats.

**Regarding dependent claim 33, Krishna discloses:**

the tokens are embedded in the at least one template using user-defined tags (HTML file tag sets; col.7, lines 20-25).

**Regarding dependent claim 34, Krishna discloses:**

run-time services that are actually invoked is determined based, at least in part, on which platform a given client executes (the client computer... running within the Windows 95 operating system; col.4, lines 41-52).

**Regarding dependent claim 36, Kiyono discloses:**

the template manager stores parsed templates in a template cache, so that each template need only be parsed once (the template operating means extracts a template stored ...combines the extracted template; col.7, lines 37-56).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Kiyono with Krishna and Foley because it would have provided Krishna's system with the enhanced capability of improving performance.

**Regarding dependent claim 37, Kiyono discloses:**

the parsed templates are maintained on a persistent storage, so that the parsed templates are available from one application execution session to another (a template stored in the template managing means; col.5, lines 1-10).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Kiyono with Krishna and Foley because it would have provided Krishna's system with the enhanced capability of improving performance.

**Regarding dependent claim 38, Kiyono discloses:**

any parsed templates are occasionally flushed, so that the system is forced to again parse the at least one template (the restrictive condition checking means 27 checks ...condition described in the template; col.6, lines 48-65).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Kiyono with Krishna and Foley because it would have provided the capability for handling templates.

**Regarding dependent claim 40, Kiyono discloses:**

the back-end database comprises an SQL database system that retrieves information in response to SQL queries (a set of items is handled as a logic structure and an operation for searching an item; col.3, lines 55-65).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Kiyono with Krishna and Foley because it would have provided the capability for searching an item satisfying a search condition.

**Regarding dependent claim 41, Krishna discloses:**

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at least one template comprises at least one read-only template (a downloadable Viewer file 114; col.5, lines 13-15).

**Regarding dependent claim 42, Krishna discloses:**

at least one template is loaded by browser software running at the particular client (if the template file 112... may be viewed by a browser; col.6, lines 7-11).

**Regarding dependent claim 43, Krishna discloses:**

at least one template comprises an input form having a platform-specific presentation when rendered at a given client (the template file also includes a set of actions to be taken on or between the objects in response to user inputs; col.3, lines 6-9).

**Regarding dependent claim 45, Krishna discloses:**

run-time services are invoked is determined based, at least in part, on a specific client session that is executing (a template file 112 specifies... specified by URLs...located content files; col.5, lines 47-57).

**Regarding dependent claim 10, Kiyono discloses:**

the template manager stores parsed templates in a template cache, so that each template need only be parsed once (the template operating means extracts a template stored... combines the extracted template; col.7, lines 37-56).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Kiyono with Krishna and Foley because it would have provided Krishna's system with the enhanced capability of improving performance.

**Regarding dependent claim 11, Kiyono discloses:**



the parsed templates are maintained on a persistent storage, so that the parsed templates are available from one application execution one session to another (a template stored in the template managing means; col.6, lines 48-65).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Kiyono with Krishna and Foley because it would have provided Krishna's system with the enhanced capability of improving performance.

**Regarding dependent claim 12, Kiyono discloses:**

any parsed templates are flushed, so that the system is forced to again parse the at least one template (the restrictive condition checking means 27 checks ...condition described in the template; col.6, lines 48-65).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Kiyono with Krishna and Foley because it would have provided the capability for handling templates.

**Regarding dependent claim 14, Kiyono discloses:**

the back-end database comprises an SQL database system that retrieves information in response to SQL queries (a set of items is handled as a logic structure and an operation for searching an item; col.3, lines 55-65).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Kiyono with Krishna and Foley because it would have provided the capability for searching an item satisfying a search condition from the set of items.

**Regarding dependent claim 23, Kiyono discloses:**

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the programming constructs include conditional logic statements (a logic structure and an operation for searching; col.3, lines 55-65).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Kiyono with Krishna and Foley because it would have provided the capability for searching an item satisfying a search condition.

**Regarding dependent claim 24**, Kiyono discloses:

As to dependent claim 24, Kiyono teaches the conditional logic statements include "if statements (the operation of searching an item satisfying a searching condition; col.8, lines 30-45).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Kiyono with Krishna and Foley because it would have provided the capability for searching an item satisfying a search condition.

**Regarding dependent claim 25**, Kiyono discloses:

the conditional logic statements include "for" loops (the operation of searching an item satisfying a searching condition; col.8, lines 31-40).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Kiyono with Krishna and Foley because it would have provided the capability for searching an item satisfying a search condition.

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5. **Claims 2-6, 19-20, 22, and 46-59 are rejected under 35 U.S.C. 103(a) as being unpatentable over Krishna et al. (USPN 6,055,522 – filed on 6/1997 in view of Foley et al. (USPN 5,706,502 – issued on 01/1998).**

**Regarding independent claim 46, Krishna discloses:**

A method for creating and deploying an application that provides access to back-end information access functionality, including:

creating a least one template (template files 112; col. 4, lines 30-32) including one or more abstract references that specify functionality to be invoked when a given client requests the template (the content may actually be embedded in the template file or may simply be a reference to where the content can be found; col. 2, lines 2-21 and col. 3, lines 1-17);

a dictionary that associates the abstract references with at least one run-time handler and one or more run-time services (web page may include address pointers to other servers where information can be found; the template file consists of a set of objects...actions taken on or by such objects; template file 112 may actually be a reference to objects that may be stored on a server 122 that is located remotely to the web server 102 on which the template file is stored; col. 1, lines 21-32 and line 63 – col. 2, line 21, col. 5, lines 3-15); and

receiving a request from the given client that identifies at least one template (client 130 first makes a request...then downloads the template file 112 to the browser 132; col. 5, lines 16-31);

accessing the identified template and determining the abstract references in the identified template (the content portion of a template file may reference to objects stored on a server 122...; col. 5, lines 3-11);

accessing and determining the run-time handler and the run-time services associated with the abstract references (the template file specifies how a web page is to be displayed; the server 102 has stored a downloadable Viewer file which contains applet or plug-in portion that contains programs used by the browser; the browser ascertains that the downloaded template file requires an applet and uses the applet conjunction with the local Java interpreter to display the web page; col. 1, line 63 – col. 2, line 8, lines 62-65 and col. 5, lines 3-46); and

invoking run-time handlers and run-time services to access to the back-end information access functionality (operations may be performed at the time a user ...requests access to the template 112 file ...at scheduled intervals; col. 3, lines 21-33, col. 5, lines 25-50, and col. 6, lines 44-52 and running templates on demand or at scheduled intervals by the Page Builder (run-time handler); col. 3, lines 21-23 and col. 6, lines 44-52).

However, Krishna does not explicitly disclose “registering the abstract reference with a dictionary that associates the abstract references with run-time handler and run-time services” and “accessing the dictionary ”.

Foley on col. 5, lines 23-27 and lines 58-63 teaches executing all of the referenced files that are executable (i.e., the applets), in other words, referenced applets are stored (registered) in a remote system are to be automatically pulled and executed; see Figure 1 shows JWS Applets 140A contains a list (dictionary) of referenced stored applets 140A1-140A2 wherein the these referenced applets are pulled (accessed) to be executed.

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of stored referenced applets of Foley into the

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objects and actions of Krishna in order to facilitate the creation or importation of software components such as Java applets (stored locally or on an Internet node).

**Regarding dependent claim 2,** Krishna discloses:

the at least one template comprises at least one page description language template (the template file consists of a specification for a Web page in terms of object content and actions to be taken on or between such objects; col.2, lines 62-65).

**Regarding dependent claim 3,** Krishna discloses:

at least one page description language template comprises at least one Hypertext Markup Language document (display the Web page; col.5, lines 16-30).

**Regarding dependent claim 4,** Krishna discloses:

It would have been obvious that a Standard Generalized Markup Language document is used widely to manage large documents that are subject to frequent revisions and need to be printed in different formats.

**Regarding dependent claim 5,** Krishna discloses:

the references are embedded in the at least one template using user-defined (HTML file tag sets; col.7, lines 20-25).

**Regarding dependent claim 6,** Krishna discloses:

which specific functionality that is actually invoked is determined based, at least in part, on which platform a given client executes (the client computer... running within the Windows 95 operating system; col.4, lines 41-52).

**Regarding dependent claim 19,** Krishna discloses:

wherein the specific functionality invoked is based, at least in part, on a specific client session that is executing (a template file 112 specifies... specified by URLs...located content files; col.5, lines 47-57).

**Regarding dependent claim 20, Krishna discloses:**

the application comprises a single code base application that is deployed on multiple platforms (having content files 124 stored therein or client computers 130 and 140; col.4, lines 38-40).

**Regarding dependent claim 22, Krishna discloses:**

the references comprise tokens specifying programming constructs (a set of links is also produced which specify how transitions between such representations should occur; col.2, lines 59-61).

**Regarding dependent claims 47-49, Krishna discloses:**

back-end functionality includes accessing information in a back-end database; a configuration table; from machine services (obtain the content and action information from servers 102 and/or 122; col. 4, lines 24-40 and col. 5, lines 3-46).

**Regarding dependent claims 50-53, Krishna discloses:**

the request can be resolved to the given client and a platform from which the request originates, further including invoking the run-time handler and the run time services using parameters corresponding to the given client and the platform (browser program accesses and runs a program for interpreting the template...; the viewer program is activated to locate and interpret the object content and actions contained in the template file; causes information to be displayed (resolved request); col. 2, lines 9-21).

**Regarding dependent claims 54-56, Krishna discloses:**

the abstract references specify functionality that is independent of a platform from which the request originates; independent of the given client; independent of any particular back-end database (template file consists of objects...actions taken on or by such objects; object content can be defined by storing the formatted content itself, as well as by reference to a location where the content file can be found; col. 1, line 63 – col. 2, line 21).

**Regarding dependent claim 57, Krishna discloses:**

the back-end database includes a synchronization engine (the page builder 100 accepts the template file and content files and/or as inputs (synchronization) to generate a set of HTML page files; col. 5, lines 31-46).

**Regarding dependent claims 58, Krishna discloses:**

the request can be resolved to a platform from which the request originates, further including composing a presentation adapted to the platform (requested information to be displayed (resolved), col. 2, lines 9-21; content and action to information in the template file are used to change the visual display of the page in response to user inputs, col. 5, lines 12-15).

**Regarding dependent claims 59, Krishna discloses:**

the run-time services that access information in the back-end database are independent of logic that composes the adapted presentation (the template file includes actions to be taken (services); the template file may actually be a references to objects stored on a server, col. 5, lines 3-11).

***Response to Arguments***

6. Applicant's arguments filed 5/12/04 have been fully considered but they are not persuasive.

Regarding Applicant's remarks on pages 9-13:

Applicant argues that Foley does not provide the claimed dictionary.

The Examiner as cited Foley to teach the claimed dictionary as a list of referenced stored applets (col. 5, lines 23-27 and lines 58-63, Figure 1). The Examiner agrees with Applicant that Foley does not teach the term "dictionary", however, the term "dictionary" can be interpreted as a list of words, items, or terms to be referenced. Therefore, the Examiner applied Foley to teach such listing of applets, which are stored in a remote system to be referenced, pulled, and executed (col. 5, lines 23-27 and lines 58-63 and Figure 1 items 140A).

***Conclusion***

7. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,



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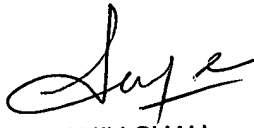
however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Almari Yuan whose telephone number is 703-305-5945 (571-272-4104 after October 20, 2004). The examiner can normally be reached on Mondays - Fridays (8:30am - 5:00pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Feild, can be reached on 703-305-9792 (571-272-4090 after October 20, 2004). The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

AY  
October 17, 2004

  
SANJIV SHAH  
PRIMARY EXAMINER